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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/747,615	12	2/30/2003	Hans Butler	081468-0307393	2880
909	7590	06/14/2005		EXAMINER	
PILLSBUR	RY WINTH	KIM, PE	KIM, PETER B		
	P.O. BOX 10500 MCLEAN, VA 22102				PAPER NUMBER
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				2851	
			DATE MAILED: 06/14/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/747,615	BUTLER ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Peter B. Kim	2851				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE I - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a 10 period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the material part of the part of	N. 1.136(a). In no event, however, may a reply be tile to the statutory minimum of thirty (30) day od will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on	.	•				
2a) <u></u> □	This action is FINAL . 2b)⊠ T	his action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	Claim(s) 1-17 is/are pending in the application	on.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	5) Claim(s) is/are allowed.						
•	Claim(s) <u>1-17</u> is/are rejected.						
·	Claim(s) is/are objected to.						
8)[_]	Claim(s) are subject to restriction and	I/or election requirement.					
Applicati	on Papers						
9)🛛	The specification is objected to by the Exami	ner.					
10)⊠ The drawing(s) filed on <u>30 December 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)[The oath or declaration is objected to by the	Examiner. Note the attached Office	Action or form PTO-152.				
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachma-	He)						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate				
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0r No(s)/Mail Date	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)				

DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a) because they fail to show BD and SA as described in the specification, para 0040. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities: It seems that para 0006 and 0007 are identical.

Appropriate correction is required.

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Claim Objections

Claim 16 is objected to because of the following informalities: "wirelessly controllingsaid controlling" is unclear. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 9-11 and 15-17 are rejected under 35 U.S.C. 102(a) as being anticipated by Nishi et al. (Nishi) (2003/0164934).

Nishi discloses a lithographic apparatus comprising a illumination system (24), a support structure (28) to support a patterning device, a substrate holder to hold a substrate (W), a projection system (PL), a positioning mechanism (Fig. 1), a transmitter to transmit RF signal which is electromagnetic radiation and an antenna which is a transducer to receive and convert the electromagnetic radiation into a control signal (para 0054) for wirelessly controlling patterning and for interfacing with the substrate holder (para 0054).

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Claims 16 and 17 are rejected under 35 U.S.C. 102(a) as being anticipated by Ye et al. (Ye) (2003/0226951).

Ye discloses a lithographic method and apparatus comprising an illumination system (12), a support structure that supports a patterning device (26), a substrate holder (22) to hold a substrate (24), a projection system (20) and means for wirelessly interfacing with the projection system and controlling projecting of the pattern beam (para 0127).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-8 and 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishi et al. (Nishi) in view of Ye et al. (Ye).

Nishi discloses the claimed invention as discussed above; however, Nishi does not disclose a sensor and a second transducer. Ye discloses a sensor for sensing state of projection system and the patterning device and wirelessly communicating (para 0127). Although Ye does not explicitly disclose a use of transducer, in order to communicate wirelessly an antenna or a transducer must be inherent to the system. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide the sensor and a second transducer of Ye to the invention of Nishi in order to improve exposure by inspection as taught by Ye in the abstract.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter B. Kim whose telephone number is (571) 272-2120. The examiner can normally be reached on 8:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Peter B. Kim
Primary Examiner

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June 11, 2005